

PERSONAL PROTECTIVE EQUIPMENT SPECIFICATIONS LIST FOR HEALTHCARE WORKERS

Personal Protective Equipment (PPE) refers to all clothing and accessory equipment used to protect and prevent the healthcare worker, in this case, from being infected or contaminated by Covid-19 whilst treating and managing those patients who are infected.

The list below specifies all possible PPE that healthcare workers engaging with infected patients at varying levels of care may require in order to protect themselves.

To note is that textile manufacturers and other sectors of industry may not be aware that the PPE specified below need not be sterile or medical grade specifically, and that, should their fabrics, clothing or materials meet the requirements set out, it may be able to be utilized for PPE despite it not being originally intended for this usage.

SUMMARY OF REQUIRED EQUIPMENT:

1. Disposable surgical mask
2. Disposable surgical masks with visor
3. Disposable protective respirators
4. Disposable aprons
5. Protective surgical gowns (sterile and non-sterile)
6. Protective eyewear/goggles/face shields
7. Disposable Surgical gloves (sterile/surgical and non-sterile/examination)
8. Overshoes
9. Protective hoods

PROPOSED PPE PACK CONTENTS:

- N95 or equivalent protective respirator mask
- Disposable surgical gown
- Disposable surgical gloves x 2 sets
- Overshoes
- Protective hood
- Protective eyewear/goggles
- Face shield

Added ideal extras include:

- disposable apron
- disposable surgical mask for travelling through hospital to designated areas prior to full donning and doffing
- clear, pliable plastic sheet for face cover of intubated patient (minimum size 60x60cm)

1.Disposable Surgical Masks:

Masks must be:

- made from four layers of fabric
- splash proof
- pleated horizontally with 3 pleats
- soft, pliable material that is well-bonded
- have four tie backs for fastening around head
- fit a wide range of face shapes, comfortably and for ease of breathing
- have a rubber/foam or silicone strip over nasal bridge
- have a semi-flexible malleable form to adjust and fit over nasal bridge

Packaging must state:

- latex and fibreglass free status
- fluid resistance; minimum 80mmHg
- odour free
- bacterial/micro-organism filtration efficacy
- mask classification and type
- manufacturer details

2. Disposable Surgical Mask with visor/ separate face shield:

Mask must:

- consist of above specifications for disposable surgical mask (1.)
- have attached bonded, transparent visor
- may have foam band attached
- shield must extend from chest, at least 15cm past chin, extend around sides of face beyond lateral margin eyes
- shield must ideally attach to hood or extend beyond forehead posteriorly

3. Disposable Protective Respirators:

Masks may be registered as:

- FFP2/FFP3/N95/KN95 (or alternative equivalent standard)

Specifications must be:

- Particulate filtration respirators used for protection against airborne diseases such as tuberculosis.
- A particulate filtration half mask must cover the chin, mouth and nose; it may/ may not have an exhalation valve
- The particulate filtration respirator must not disintegrate during continuous or intermittent use in a 12 hour work day.
- Parts of the particulate filtration respirator that are more likely to come into contact with the wearer must be hypo-allergenic.
- Filter performance must meet standards relevant to the specific respirator classification
- The respirator must have an adjustable/self-adjustable head harness which ensures ease of donning or removal
- The particulate filtration respirator shall have a filtration efficiency of 95% for particles as small as 0.3 microns.
- The particulate filtration respirator shall have the equivalent of an external hydrophobic fabric layer for droplet protection.

Labelling must state:

- Name or trademark
- Filter efficiency/Classification
- Approval number
- Standard compliance
- Size of the respirator

4. Disposable Apron:

Apron must be:

- Single use or easily sanitised
- No-noise, smooth, plastic impermeable
- Length from neck: not less than 110cm
- Width: not less than 65cm
- Thickness: 25 micron
- Ties length: not less than 50cm
- Ties width: not less than 5cm

5. Protective Surgical Gown:

Gown must be:

- Non-woven polypropylene (or equivalent material)
- Single use or easily sanitised
- Sterile or non-sterile
- Body $\pm 54 \text{ g/m}^2$
- Sleeves $\pm 66 \text{ g/m}^2$
- Long sleeves with cuffs
- Reinforced in chest and forearm areas
- Resistant to liquid penetration
- Lint-free
- Non- flammable
- Bacterial barrier efficiency; to comply with SANS 53795
- Compliance certificate to be submitted ideally
- Small/medium/large sizes
- Ideally able to be pulled off forwards in doffing

6. Protective Eyewear:

Surgical Safety Goggle/shield must be:

- Clear Fog free
- Plano (no corrective lens)
- Scratch resistant
- Non-reflective
- Wrap around (or closed sides) to give full protection from splashes
- Latex free
- Shatter-proof
- Reusable
- Non-sterile
- To be manufactured from clear distortion free plastic
- Anti-glare properties
- Available in different sizes where appropriate

7. Surgical Gloves:

GLOVES: EXAMINATION, NON-STERILE. Singles, ambidextrous. Maximum thickness at centre of palm for all sizes shall be 0.5 mm for the smooth area and 0.53 mm for the textured area. Non-sterile. Powder free. Latex free (e.g. Nitrile). Packed in box dispensers with maximum of 100 gloves per box. Immediate packaging shall be marked “nitrile gloves”. Glove should not be rigid and should be elastic enough when donned.		
Size		Approximate Minimum Length in mm
Small	(± 5½ - 6)	220 mm
Medium	(± 6½ - 7½)	230 mm
Large	(± 8 - 9)	240 mm
Extra-large	(±9 - 10)	250mm

GLOVE, EXAMINATION, NON-STERILE, TYPE 2, (gloves made primarily from nitrile rubber latex, polychloroprene rubber latex, styrene-butadiene rubber solution, styrene-butadiene rubber emulsion or thermoplastic-elastomer solution), single use, Powder free, Ambidextrous. SANS 11193-1, Size: 50 pairs of gloves, Box of 100	
Sizes:	Small Medium Large Extra Large

GLOVE, EXAMINATION, STERILE, TYPE 2 (gloves made primarily from nitrile rubber latex, polychloroprene rubber latex, styrene-butadiene rubber solution, styrene-butadiene rubber emulsion or thermoplastic-elastomer solution), Single use, Powder free, Ambidextrous. SANS 11193-1, Packaged as pairs in Sterile Packages, 50 pairs of gloves, Box of 100	
Sizes:	Small Medium Large Extra Large

DESCRIPTION OF PRODUCT			
GLOVES: SURGICAL, STERILE. Pairs. Maximum thickness at approximate centre of palm for all sizes shall be 0.10 mm for the smooth area and 0.13 mm for the textured area . Sterile. Powder free. Latex free. The cuff may be beaded or reinforced for strength and easy donning.			
Paired gloves shall be packaged in sequential, two-layered packaging with a maximum of 50 pairs per box.			
Inner package shall be clearly marked with the size and the designation “left” or ‘L” or “right” or ‘R” on the package.			
Total Protein (Modified Lowry) to be not more than 28 micrograms per gram/glove.			
Approximate in mm			
	Width	Length	Tolerance of width
Size			
5½	71	250	±5

6	77	260	±5
6½	83	260	±5
7	89	270	±5
7½	95	270	±5
8	102	270	±6
8½	108	280	±6
9	114	290	±6

Glove, surgical, sterile, Type 2 (gloves made primarily from nitrile rubber latex, polychloroprene rubber latex, styrene-butadiene rubber solution, styrene-butadiene rubber emulsion or thermoplastic-elastomer solution). Single use, Powder free, One pair (1 left + 1 right) of gloves are folded & packed in a paper wallet. The paper wallet is packed in a plastic pouch which is sealed from all sides. Inner package shall be clearly marked with the size and the designation "left" or "L" or "right" or "R" on the package. Easy donning. To comply with the latest issue of SANS 68Packaged as pairs in Sterile Packages. 50 pairs of gloves. Box of 100	
Sizes	
6	
6.5.	
7	
7.5	
8	
8.5	
9	

8. Overshoes:

- Protective overshoes must be:
- Able to fully cover adult shoe sizes 3-12
 - Be self-elasticated or drawstring around shoe to secure
 - Be anti-slip
 - Be anti-static
 - Be impervious to splash and soaking of liquids, non-porous
 - Disposable or able to be easily sanitised

9.Protective Hoods:

- If unattached to respirator, must be:
- Open to face area
 - Anti-static
 - Able to fit large adult size
 - Be impervious to splash and soaking of liquids, non-porous
 - Non-flammable
 - Drawstring, self-elasticated or long enough to hang over shoulders
 - Disposable or able to be easily sanitised

If attached to a respirator, must meet full regulatory requirements for full respirator PPE as per manufacturing standards.

